

FIG. 2

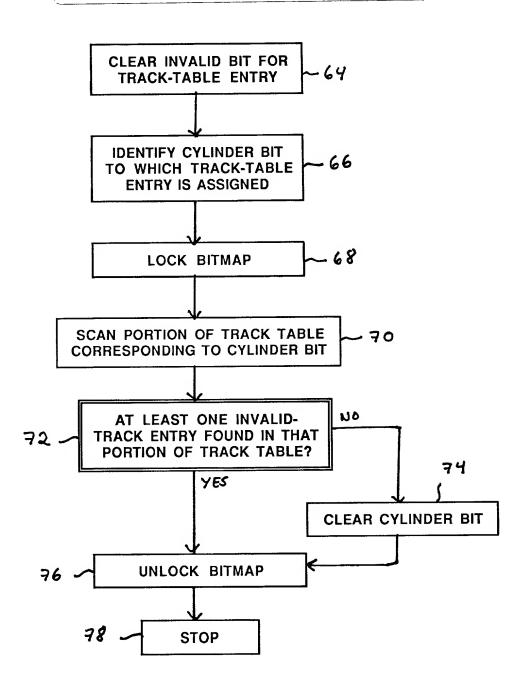


FIG. 3

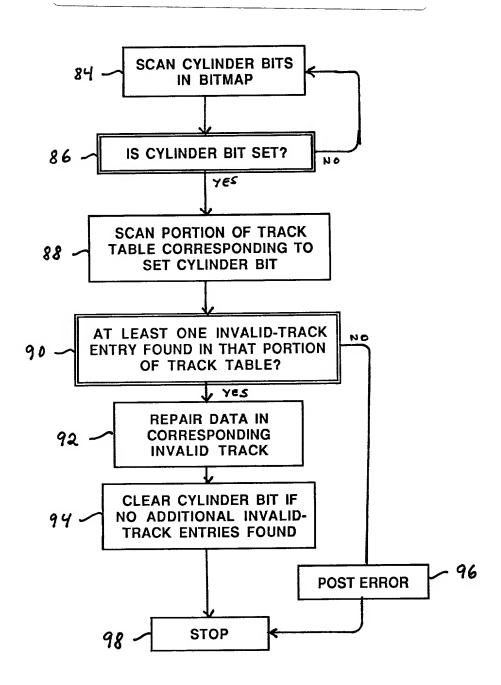


FIG. 4

FIG. 5

```
T do
                                                                                                                  for each track T1 in cylinder containing track
procedure fixed_invalid_track(T)
0 = (T/15)/8
                              = remainder(remainder(T/15)/8)
                                                                                                                                                                                                                    write D at offset O from X
                                                                        O from X
                                                                                      1 then
                                                                                                                                -if T1 is valid then
                                            = pointer to bitmap
                                                                                                                                                                                                   set (bit B of D)
                                                                                                                                              -count=count-1
                                                                                                                                                                                       if count=0 then
                                                                       D = byte at offset
                                                                                      (bit B of D) =
                                                                                                                                                                                                                                                               -trace error
                                                                                                  113 _count = 15
                                                                                                                                                                                                                                                                                     123 —unlock bitmap
                                                          ✓lock bitmap
                                                                                                                                                                           endfor
                                                                                                                                                                                                                                 endif
                                                                                                                                                                                                                                                 else
                                                                                                                                                                                                                                                                          endif
                              В
                                                                                                                                                                                                              17
                                                                                                                                                                                                                             177
                                                                                                                                                                                                                                                          124
```

FIG.

```
ф
                                                                                                                                                                                                                                                                                                                                 -- T1=remainder((0*15*8+remainder(T1/15))/n_tracks)
                                                                                                                                                                            for each track T2 in cylinder containing T1
                                                                                                                                                                                                                                                                                                 = remainder((T1+15)/n_tracks)
                                                                                                                                                                                           if T2 is invalid then
procedure find_next_invalid_track(T)
                                                                                                                                          Leor each bit B1 in D do
                                                                                                                                                                                                             return T2
                                                  126 \sim T1 = remainder(T+1)/\tilde{n}_tracks
                                                                                    128 \sim D=byte at offset 0 from X
                                                                                                                                                             if bit B1=1 then
                  T = last invalid track
                                   X = pointer to bitmap
                                                                                                                                                                                                                               endif
                                                                                                                                                                                                                                                endfor
                                                                                                                                                                                                                                                               endif
                                                                                                                          /if D≠0 then
                                                                                                                                                                                                                                                                                 endfor
                                                                                                                                                                                                                                                                                                 T1
                                                                                                                                                                                                                                                                                                                                                                  until T1=T;
                                                                                                                                                                                                                                                                                                                                                  endif
                                                                                                                                                                                                                                                                                                                                                                                     return -1.
                                                                      repeat
                                                                                                                                                                                                                                                                                                                                  129
                                                                                                                                                          132
                                                                                                                               130
```

FIG.